UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,168	12/31/2003	Yong-Suk Kim	Q77182	6948

23373	7590	02/14/2006		

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EXAMINER
PAN, YUWEN

ART UNIT	PAPER NUMBER
2682	

DATE MAILED: 02/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)
Office Action Summary	10/748,168	KIM ET AL.
	Examiner	**Art Unit**	
	Yuwen Pan	2682	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *31 December 2003*.

2a)☐ This action is **FINAL.**   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-16* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-16* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *31 December 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☒ All b)☐ Some * c)☐ None of:

      1.☒ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

2.   Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martini et al

(US006675015B1) in view of Mitts et al (US005940371A).

Per claim 1, Martini discloses a short range wireless communication system, comprising:

a host controller interface provided with a handoff buffer for buffering at least one of host

controller interface data and transmission data, and for exchange said at least one of HCI data

and transmission data with an external device, and forward information among nearby access

points (see figure 1 and column 5 and lines 55-63). Martini doesn't teach that a microcontroller

for forwarding to a new access point said at least one of HCI data and transmission data buffed in

the handoff buffer if a message indicating setup completion of a connection with the external

device is transmitted from the new AP after a handoff occurs an the external device moves, in a

state where the new AP is interlinked with the external device. Mitts teaches that the unsent

buffed information from the old base station is forwarded to the new base station after the new

base station has completed the establishment with the external station or handover (see column 5

and lines 30-53). It would have been obvious to one ordinary skill in the art at the time the

invention was made to combine the teaching of Mitts with Martini's system such that there

would be redundancy of transmission.

Same arguments apply, mutatis mutandis, to the independent claims 5, 9, and 13.

Pre claims 2, Mitts further teaches that the microcontroller deletes said at least one of

HCI data and transmission data buffered in the handoff buffer if an acknowledge message for

said ate last one of the HCI data and the transmission data transmitted from the external device,

is received (see column 8 and lines 3-25).

Same arguments apply, mutatis mutandis, to claims 6, 10 and 14.

Per claim 3, Mitts further teaches that the microcontroller maintains said at least one of

HCI data and transmission data buffered in the handoff buffer if an acknowledge message for

said ate last one of the HCI data and the transmission data transmitted from the external device,

is not received (see column 7 and lines 46-67).

Same arguments apply, mutatis mutandis, to claims 7, 11 and 15.

Per claim 4, Mitts further teaches that if the microcontroller newly linked with a another

external device receives said at least one of HCI data and the transmission data from a different

AP, the microcontroller transmits said at least one of HCI data and the transmission data to the

another external device immediately.

Same arguments apply, mutatis mutandis, to claims 8, 12 and 16.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Yuwen Pan whose telephone number is 571-272-7855. The

examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Doris To can be reached on 571-272-7629. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Yuwen Pan
January 3, 2006

LEE NGUYEN
PRIMARY EXAMINER